

AMENDMENTS TO THE CLAIMS

Claims 1-16. (Canceled)

17. (New) A noise reduction apparatus for reducing noise propagated toward a predetermined space on one side of a wall from an external noise source on another side of the wall, comprising:

structure, to be attached to a surface of the wall so as to face the external noise source and thereby block a noise propagation path, for generating enclosed spaces for noise reduction between said structure and the wall;

control sound sources for radiating sound into the enclosed spaces;

sound detectors to be placed within the enclosed spaces, respectively, for detecting sound propagated from the external noise source through said control sound sources; and

a control arrangement for causing said control sound sources to radiate sound into the enclosed spaces so as to minimize sound to be detected by said sound detectors, based on results corresponding to the sound as detected by said sound detectors.

18. (New) The noise reduction apparatus according to claim 17, wherein said structure to be attached to the surface of the wall comprises plural adjacent housings.

19. (New) The noise reduction apparatus according to claim 18, further comprising: vibration damping sections, each of said vibration damping sections for damping a vibration in a position of a barycenter of a corresponding one of the enclosed spaces.

20. (New) The noise reduction apparatus according to claim 19, wherein said each of said vibration damping sections comprises a pole for connecting a corresponding one of said housings with the wall.

21. (New) The noise reduction apparatus according to claim 20, wherein a corresponding one of said sound detectors is connected to a corresponding said pole.
22. (New) The noise reduction apparatus according to claim 19, wherein said each of said vibration damping sections comprises a plummet to be positioned at the barycenter of the corresponding one of the enclosed spaces.
23. (New) The noise reduction apparatus according to claim 18, further comprising: a film connected to each of said housings for generating a closed space within a corresponding one of each of the enclosed spaces.
24. (New) The noise reduction apparatus according to claim 18, wherein said control arrangement comprises control sections, with each of said control sections to be placed in a corresponding one of the enclosed spaces.
25. (New) The noise reduction apparatus according to claim 17, further comprising: a noise detector to be positioned outside the predetermined space, wherein said control arrangement is for generating control signals based on results corresponding to the sound as detected by said sound detectors and noise as detected by said noise detector.
26. (New) The noise reduction apparatus according to claim 17, wherein each of said control sound sources comprises a piezoelectric loudspeaker.
27. (New) A noise reduction apparatus for reducing noise propagated toward a predetermined space on one side of a wall from an external noise source on another side of the wall, comprising:

structure attached to a surface of said wall so as to generate enclosed spaces for noise reduction between said structure and said wall, said structure for facing the external noise source so as to block a noise propagation path;

control sound sources for radiating sound into said enclosed spaces;

sound detectors within said enclosed spaces, respectively, for detecting sound propagated from the external noise source through said control sound sources; and

a control arrangement for causing said control sound sources to radiate sound into said enclosed spaces so as to minimize sound to be detected by said sound detectors, based on results corresponding to the sound as detected by said sound detectors.

28. (New) The noise reduction apparatus according to claim 27, wherein said structure attached to the surface of said wall comprises plural adjacent housings.

29. (New) The noise reduction apparatus according to claim 28, further comprising: vibration damping sections, each of said vibration damping sections for damping a vibration in a position of a barycenter of a corresponding one of said enclosed spaces.

30. (New) The noise reduction apparatus according to claim 29, wherein said each of said vibration damping sections comprises a pole connecting a corresponding one of said housings with said wall.

31. (New) The noise reduction apparatus according to claim 30, wherein each of said sound detectors is connected to a corresponding said pole.

32. (New) The noise reduction apparatus according to claim 29, wherein said each of said vibration damping sections comprises a plummet positioned at said barycenter of said corresponding one of said enclosed spaces.

33. (New) The noise reduction apparatus according to claim 28, further comprising:
a film connected to each of said housings so as to generate a closed space within a
corresponding one of each of said enclosed spaces.

34. (New) The noise reduction apparatus according to claim 28, wherein
said control arrangement comprises control sections, with each of said control sections
being in a corresponding one of said enclosed spaces.

35. (New) The noise reduction apparatus according to claim 27, further comprising:
a noise detector to be positioned outside the predetermined space,
wherein said control arrangement is for generating control signals based on results
corresponding to the sound as detected by said sound detectors and noise as detected by said
noise detector.

36. (New) The noise reduction apparatus according to claim 27, wherein
each of said control sound sources comprises a piezoelectric loudspeaker.